

Property	Test Condition	Test Method ISO	Units	High Impact/Nylon66	
				Standard	
				U320	
				>PA66-I<	
				Dry	2.5%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO62	%	1.1	-
Water Absorption	23℃ in water	ISO62	%	6	-
Density	23℃	ISO1183	kg/m ³	1090	-
Mechanical property					
Tensile strength	-40℃	ISO527-1,2	MPa	100	92
Tensile strength	23℃	ISO527-1,2	MPa	60	43
Elongation at Break	-40℃	ISO527-1,2	%	5.5	8.5
Elongation at Break	23℃	ISO527-1,2	%	30	50
Flexural Strength	-40℃	ISO178	MPa	115	110
Flexural Strength	23℃	ISO178	MPa	75	40
Flexural Modulus	-40℃	ISO178	GPa	2.6	2.6
Flexural Modulus	23℃	ISO178	GPa	2	0.8
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-	-
Rockwell Hardness	80℃	ISO2039-2	R Scale	114	-
Taper Abrasion		ISO9352	mg/1000times	7~8	-
Charpy Impact Strength (V-notched)	-40℃	ISO179	kJ/m ²	14	20
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	21.5	57
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	-	-
Heat property					
Melting Point		DSC Method	℃	265	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	10~11	-
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	180	-
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	60	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	-	-
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	1.2~1.5	-

These values are typical data for this product under specific test conditions and not intended for use as limiting specifications.

